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Practical-4:

activity_main.xml: <?xml version="1.0" encoding="utf-8"?> <androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android" xmlns:app="http://schemas.android.com/apk/res-auto" xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent" android:layout_height="match_parent" tools:context=".MainActivity"> <Button android:id="@+id/LengthConvert" android:layout_width="258dp" android:layout_height="107dp" android:layout marginTop="200dp" android:text="@string/LengthConvert" app:layout_constraintEnd_toEndOf="parent" app:layout_constraintHorizontal_bias="0.503" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toTopOf="parent" /> <Button android:id="@+id/CurrencyConvert" android:layout_width="258dp" android:layout_height="107dp" android:layout_marginBottom="200dp" android:text="@string/CurrencyConvert" app:layout_constraintBottom_toBottomOf="parent" app:layout constraintEnd toEndOf="parent" app:layout_constraintStart_toStartOf="parent" app:layout_constraintTop_toBottomOf="@+id/LengthConvert" app:layout constraintVertical bias="1.0"/> </androidx.constraintlayout.widget.ConstraintLayout> MainActivity.java: package com.example.practical_4; import androidx.appcompat.app.AppCompatActivity;

import android.content.Intent; import android.os.Bundle;

```
import android.view.View;
import android.widget.Button;9
public class MainActivity extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);
    Button b1 = (Button) findViewById(R.id.LengthConvert);
    Button b2 = (Button) findViewById(R.id.CurrencyConvert);
    b1.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         Intent i1 = new Intent(getApplicationContext(), LengthConvert.class);
         startActivity(i1);
       }
    });
    b2.setOnClickListener(new View.OnClickListener() {
       @Override
       public void onClick(View view) {
         Intent i2 = new Intent(getApplicationContext(), CurrencyConvert.class);
         startActivity(i2);
       }
    });
  }
}
activity_length_convert.xml:
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout_width="match_parent"
  android:layout height="match parent"
  tools:context=".LengthConvert">
  <TextView
    android:id="@+id/textView"
    android:layout width="wrap content"
    android:layout_height="wrap_content"
    android:layout_marginTop="100dp"
```

```
android:text="@string/entertext"
    android:textSize="34sp"
    app:layout_constraintEnd_toStartOf="@+id/Meters"
    app:layout_constraintHorizontal_bias="0.38"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent" />
  <EditText
    android:id="@+id/Meters"
    android:layout_width="187dp"
    android:layout_height="46dp"
    android:layout_marginTop="100dp"
    android:layout marginEnd="28dp"
    android:ems="10"
    android:inputType="numberDecimal"
    android:textSize="24sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintTop_toTopOf="parent"
    tools:ignore="LabelFor,SpeakableTextPresentCheck"
    android:importantForAutofill="no" />
  <TextView
    android:id="@+id/ResultLength"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="100dp"
    android:text="@string/Initial"
    android:textSize="34sp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout constraintStart toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/textView"/>
  <Button
    android:id="@+id/CovertLength"
    android:layout width="298dp"
    android:layout height="73dp"
    android:layout_marginTop="100dp"
    android:text="@string/convert"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintHorizontal_bias="0.495"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/ResultLength" />
</androidx.constraintlayout.widget.ConstraintLayout>
```

LengthConvert.java:

```
package com.example.practical_4;
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class LengthConvert extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_length_convert);
    Button ConvertLength = (Button) findViewById(R.id.CovertLength);
    EditText meters = (EditText)findViewById(R.id.Meters);
    TextView tv1 = (TextView)findViewById(R.id.ResultLength);
    ConvertLength.setOnClickListener(new View.OnClickListener() {
       @SuppressLint("SetTextI18n")
       @Override
       public void onClick(View view) {
         float input = Float.parseFloat(meters.getText().toString());
         float inches = input * 39.37f;
         tv1.setText("Inches:" + inches);
    });
  }
}
activity_currency_convert.xml:
<?xml version="1.0" encoding="utf-8"?>
<androidx.constraintlayout.widget.ConstraintLayout
xmlns:android="http://schemas.android.com/apk/res/android"
  xmlns:app="http://schemas.android.com/apk/res-auto"
  xmlns:tools="http://schemas.android.com/tools"
  android:layout width="match parent"
  android:layout_height="match_parent"
  tools:context=".CurrencyConvert">
```

```
<TextView
android:id="@+id/textView3"
android:layout_width="wrap_content"
android:layout height="wrap content"
android:layout marginTop="100dp"
android:text="@string/entertext"
android:textSize="34sp"
app:layout_constraintEnd_toStartOf="@+id/USD"
app:layout_constraintStart_toStartOf="parent"
app:layout_constraintTop_toTopOf="parent" />
<EditText
  android:id="@+id/USD"
  android:layout_width="187dp"
  android:layout_height="46dp"
  android:layout_marginTop="100dp"
  android:layout_marginEnd="28dp"
  android:ems="10"
  android:inputType="numberDecimal"
  android:textSize="24sp"
  app:layout constraintEnd toEndOf="parent"
  app:layout_constraintTop_toTopOf="parent"
  tools:ignore="LabelFor,SpeakableTextPresentCheck"
  android:importantForAutofill="no" />
<TextView
  android:id="@+id/Result"
  android:layout_width="wrap_content"
  android:layout height="wrap content"
  android:layout_marginTop="100dp"
  android:text="@string/Initial"
  android:textSize="34sp"
  app:layout_constraintEnd_toEndOf="parent"
  app:layout constraintStart toStartOf="parent"
  app:layout_constraintTop_toBottomOf="@+id/USD"/>
<Button
  android:id="@+id/ConvertCurrency"
  android:layout_width="298dp"
  android:layout_height="73dp"
  android:layout_marginTop="100dp"
  android:text="@string/convert"
  app:layout constraintEnd toEndOf="parent"
  app:layout_constraintHorizontal_bias="0.495"
  app:layout_constraintStart_toStartOf="parent"
```

```
app:layout_constraintTop_toBottomOf="@+id/Result"/>
</androidx.constraintlayout.widget.ConstraintLayout>
```

CurrencyConvert.java:

```
package com.example.practical_4;
import androidx.appcompat.app.AppCompatActivity;
import android.annotation.SuppressLint;
import android.os.Bundle;
import android.view.View;
import android.widget.Button;
import android.widget.EditText;
import android.widget.TextView;
public class CurrencyConvert extends AppCompatActivity {
  @Override
  protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_currency_convert);
    Button ConvertLength = (Button) findViewById(R.id.ConvertCurrency);
    EditText meters = (EditText)findViewById(R.id.USD);
    TextView tv1 = (TextView)findViewById(R.id.Result);
    ConvertLength.setOnClickListener(new View.OnClickListener() {
       @SuppressLint("SetTextI18n")
       @Override
       public void onClick(View view) {
         float input = Float.parseFloat(meters.getText().toString());
         float inches = input *75;
         tv1.setText("INR:" + inches);
       }
    });
  }
}
```

Output:

